

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave.St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003548**Date Inspected:** 23-Jul-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Steve Lawton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG)**Bid Item:** 77,78,79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Sub-Assemblies (OBG)**

L13W Cross Beam Bottom Plate External Surface, NOI Number 7728: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13W Cross Beam Bottom Plate External Surface. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to pending incident report.

L13W West Side Plate and Corner Unit External Surfaces, NOI Number 7729: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on L13W West Side Plate and Corner Unit External Surfaces were tested in accordance with SSPC-SP 1 (Surface Cleanliness) and SSPC-PA 2 Dry Film Thickness (DFT). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to improper surface preparation.

L14W Internal East Section Ceiling and Vertical of Floor Beam from PP125 to PP126, NOI Number 7730: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the

---

## SOURCE INSPECTION REPORT

( Continued Page 2 of 3 )

---

surface condition on L14W Internal East Section Ceiling and Vertical of Floor Beam from PP125 to PP126 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to holidays and recorded DFT readings out of specification range.

L14W Internal West Section Ceiling and Vertical of Floor Beam from West Seam to OBG End, NOI Number 7731: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L14W Internal West Section Ceiling and Vertical of Floor Beam from West Seam to OBG End for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to lack of surface condition/preparation verification prior to coating application.

Bike Bracket Damaged Area Pencil Re-Blast BK18 and BK3004, NOI Number 7732: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Bike Bracket Damaged Area Pencil Re-Blast BK18 and BK3004. Test results recorded x2 surface profile readings in the range of 71 to 76  $\mu\text{m}$ . No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L14W Internal East Section Ceiling and Vertical of Floor Beam from PP125 to PP126, NOI Number 7733: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on L14W Internal East Section Ceiling and Vertical of Floor Beam from PP125 to PP126 for dry film thickness (DFT) and final VT compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (holidays) present in the applied coating.

L13W Cross Beam Side Corner Unit External from FL3 to PP124.5, NOI Number 7734: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13W Cross Beam Side Corner Unit External from FL3 to PP124.5. No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13W East Side Plate and Corner Unit External Surfaces, NOI Number 7735: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on L13W East Side Plate and Corner Unit External Surfaces were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). Test results recorded x1 MEK @ grade 5 and x1 soluble salts recorded reading of 21.6 ( $\mu\text{s/cm}$ ). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L13E Top Plate Assembly SA3214 and Splices (42 Each), NOI Number 7736: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Top Plate Assembly SA3214 and Splices (42 Each). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

---

## SOURCE INSPECTION REPORT

( Continued Page 3 of 3 )

---

L13E Top Plate Assembly SA3214 and Splices (42 Each), NOI Number 7737: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Top Plate Assembly SA3214 and Splices (42 Each). Test results recorded x3 surface profile readings in the range of 82 to 85  $\mu\text{m}$ . No major discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

---

<b>Inspected By:</b>	Cason,Kenneth	Quality Assurance Inspector
<b>Reviewed By:</b>	Miller,Mark	QA Reviewer

---